

# WHAT IS A SCIENTIFIC MODEL?



## scientific model

*a representation of a particular phenomena in the world*

# Models Representation And The Scientific Understanding

**Marx W. Wartofsky**

## **Models Representation And The Scientific Understanding:**

**Models** Marx W. Wartofsky,2012-12-06 Marx Wartofsky has been working for many years within an unusual confluence of philosophical problems He brings to these intersecting problems his comprehensive intelligence at once imaginative and rigorous analytic and historical He is a philosopher s philosopher but also Everyman s Wartofsky is philosopher of the natural and the social sciences of perception esthetics and the creative arts of the 18th century French and the 19th century Germans of politics and morality ofthe methods and morals of medicine and it is plain of all human existence To a colleague he seems Jack of all philosophical trades and master of them too The reader soon will learn that Wartofsky is a genial lucid and relaxed philosophical companion deeply serious but without noticeable anxiety I need not highlight these selected epistemological papers gathered as and about Models since Wartofsky s own introductory remarks are helpful and stimulating in that respect I need only after 21 years of friendship and collaboration with him warn the reader to beware of how profound and provocative these papers will show themselves to be beneath their good humored and swiftly flowing surface And I must publicly note the pleasure with which I welcome Marx Wartofsky s volume to our Boston Studies Boston University R S C Center for the Philosophy and History of Science September 1979 vii TABLE OF CONTENTS EDITORIAL PREFACE VII xi AC K NOWLEDGEMENTS xiii INTRODUCTION The Model Muddle Proposals for an Immodest Realism 1

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*Boston Studies in the Philosophy of Science* Cohen, Robert Sonné Cohen,Marx W. Wartofsky,1979 Modelling Nature: An Opinionated Introduction to Scientific Representation Roman Frigg,James Nguyen,2020-09-02 This monograph offers a critical introduction to current theories of how scientific models represent their target systems Representation is important

because it allows scientists to study a model to discover features of reality The authors provide a map of the conceptual landscape surrounding the issue of scientific representation arguing that it consists of multiple intertwined problems They provide an encyclopaedic overview of existing attempts to answer these questions and they assess their strengths and weaknesses The book also presents a comprehensive statement of their alternative proposal the DEKI account of representation which they have developed over the last few years They show how the account works in the case of material as well as non material models how it accommodates the use of mathematics in scientific modelling and how it sheds light on the relation between representation in science and art The issue of representation has generated a sizeable literature which has been growing fast in particular over the last decade This makes it hard for novices to get a handle on the topic because so far there is no book length introduction that would guide them through the discussion Likewise researchers may require a comprehensive review that they can refer to for critical evaluations This book meets the needs of both groups

*Understanding Scientific Understanding* Henk W. de Regt,2017-07-24 It is widely acknowledged that a central aim of science is to achieve understanding of the world around us and that possessing such understanding is highly important in our present day society But what does it mean to achieve this understanding What precisely is scientific understanding These are philosophical questions that have not yet received satisfactory answers While there has been an ongoing debate about the nature of scientific explanation since Carl Hempel advanced his covering law model in 1948 the related notion of understanding has been largely neglected because most philosophers regarded understanding as merely a subjective by product of objective explanations By contrast this book puts scientific understanding center stage It is primarily a philosophical study but also contains detailed historical case studies of scientific practice In contrast to most existing studies in this area it takes into account scientists views and analyzes their role in scientific debate and development The aim of Understanding Scientific Understanding is to develop and defend a philosophical theory of scientific understanding that can describe and explain the historical variation of criteria for understanding actually employed by scientists The theory does justice to the insights of such famous physicists as Werner Heisenberg and Richard Feynman while bringing much needed conceptual rigor to their intuitions The scope of the proposed account of understanding is the natural sciences while the detailed case studies derive from physics examples from other sciences are presented to illustrate its wider validity

**Scientific Understanding** Henk W. de Regt,Sabina Leonelli,Kai Eigner,2014-08-09 To most scientists and to those interested in the sciences understanding is the ultimate aim of scientific endeavor In spite of this understanding and how it is achieved has received little attention in recent philosophy of science Scientific Understanding seeks to reverse this trend by providing original and in depth accounts of the concept of understanding and its essential role in the scientific process To this end the chapters in this volume explore and develop three key topics understanding and explanation understanding and models and understanding in scientific practice Earlier philosophers such as Carl Hempel dismissed understanding as

subjective and pragmatic They believed that the essence of science was to be found in scientific theories and explanations In Scientific Understanding the contributors maintain that we must also consider the relation between explanations and the scientists who construct and use them They focus on understanding as the cognitive state that is a goal of explanation and on the understanding of theories and models as a means to this end The chapters in this book highlight the multifaceted nature of the process of scientific research The contributors examine current uses of theory models simulations and experiments to evaluate the degree to which these elements contribute to understanding Their analyses pay due attention to the roles of intelligibility tacit knowledge and feelings of understanding Furthermore they investigate how understanding is obtained within diverse scientific disciplines and examine how the acquisition of understanding depends on specific contexts the objects of study and the stated aims of research

**How to Do Science with Models** Axel Gelfert, 2015-12-21

Taking scientific practice as its starting point this book charts the complex territory of models used in science It examines what scientific models are and what their function is Reliance on models is pervasive in science and scientists often need to construct models in order to explain or predict anything of interest at all The diversity of kinds of models one finds in science ranging from toy models and scale models to theoretical and mathematical models has attracted attention not only from scientists but also from philosophers sociologists and historians of science This has given rise to a wide variety of case studies that look at the different uses to which models have been put in specific scientific contexts By exploring current debates on the use and building of models via cutting edge examples drawn from physics and biology the book provides broad insight into the methodology of modelling in the natural sciences It pairs specific arguments with introductory material relating to the ontology and the function of models and provides some historical context to the debates as well as a sketch of general positions in the philosophy of scientific models in the process

**Model-Based Reasoning in Science and Technology**

Lorenzo Magnani, Claudia Casadio, 2016-07-01 This book discusses how scientific and other types of cognition make use of models abduction and explanatory reasoning in order to produce important or creative changes in theories and concepts It includes revised contributions presented during the international conference on Model Based Reasoning MBR 015 held on June 25 27 in Sestri Levante Italy The book is divided into three main parts the first of which focuses on models reasoning and representation It highlights key theoretical concepts from an applied perspective addressing issues concerning information visualization experimental methods and design The second part goes a step further examining abduction problem solving and reasoning The respective contributions analyze different types of reasoning discussing various concepts of inference and creativity and their relationship with experimental data In turn the third part reports on a number of historical epistemological and technological issues By analyzing possible contradictions in modern research and describing representative case studies in experimental research this part aims at fostering new discussions and stimulating new ideas All in all the book provides researchers and graduate students in the field of applied philosophy epistemology cognitive

science and artificial intelligence alike with an authoritative snapshot of current theories and applications of model based reasoning **Scientific Understanding and Representation** Insa Lawler, Kareem Khalifa, Elay Shech, 2022-12-13 This volume assembles cutting edge scholarship on scientific understanding scientific representation and their delicate interplay. Featuring several articles in an engaging critical conversation format the volume integrates discussions about understanding and representation with perennial issues in the philosophy of science including the nature of scientific knowledge idealizations scientific realism scientific inference and scientific progress In the philosophy of science questions of scientific understanding and scientific representation have only recently been put in dialogue with each other The chapters advance these discussions from a variety of fresh perspectives They range from case studies in physics chemistry and neuroscience to the representational challenges of machine learning models from special forms of representation such as maps and topological models to the relation between understanding and explanation and from the role of idealized representations to the role of representation and understanding in scientific progress Scientific Understanding and Representation will appeal to scholars and advanced students working in philosophy of science philosophy of physics philosophy of mathematics and epistemology

*Marxism and the Methodologies of History* Gregor McLennan, 1981 Visual Representations and Scientific Knowledge Laura Therese Perini, 2002 *Boston Studies in the Philosophy of Science*, 2000 *Socialization and Education* Wolfgang Brezinka, 1994-12-30 These three essays on social science terminology examine commonly used words whose meanings on closer examination are not clear The first essay analyzes the term socialization as it is used inconsistently by 24 authors in psychology sociology and education Brezinka contends that it is frequently confused with the term education to the detriment of both concepts The second essay Models in Educational Theories examines 15 usages of the term models including the vogue expression paradigm and finds little of use for the science of education in the concepts The third essay Conflict Education attacks the New Left and its pedagogical theories for failing to abide by basic principles of concept construction and use Throughout the book the author shows how imprecision can be identified and corrected

From Yugoslav Praxis to Global Pathos William L. McBride, 2001-08-27 This book comprises a selection of William McBride's essays on theory and practice in the former Yugoslavia 1989-1999 It continues the critical assessment of neoliberal globalization from the vantage point of its effects on East Central and Southern Europe that McBride presented in *Philosophical Reflections* Unlike the earlier book it situates discussions of globalization and neonationalist wars against the backdrop of the history development and demise of Praxis Philosophy the one time bridge between the progressive forces of former Yugoslavia and various East West initiatives **Children's Mathematics 4-15** Julie Ryan, Julian Williams, 2007-04 The phrase errors and misconceptions has recently entered the vocabulary of mathematics teacher education and become prominent in the curriculum for initial teacher education This follows several decades of academic study of children's errors and misconceptions It is curious that the term misconception is finding favour in the teaching profession just as the term is

falling foul of the academic community One approach to children's errors is to view them as potential windows into children's mathematics Errors may diagnose significant ways of thinking and stages in learning and so point to important opportunities for new learning Often misconceptions are acquired through reflection on experience in a limited context for example multiplication makes bigger is a conception drawn from a context of whole numbers When such a conception is erroneously extended and generalised to numbers less than 1 a misconception is diagnosed and real teaching can begin The authors contest the popular view that errors and misconceptions should be corrected as soon as possible On the contrary such misconceptions may be supported by a child's generalised reasoning from experience and therefore require a focused treatment that respects the child's intelligent behaviour A positive view of misconceptions suggests respectful language like alternative frameworks for children's thinking and concept formation The most important consideration is to provide children with the conditions including time to articulate their reasoning confront alternatives and make a rational decision to change their mind or not This book makes use of recent and extensive original data from the authors own researches on children's performance errors and misconceptions across the mathematics curriculum including standardised data from a large national sample of 4 to 15 year olds and conversations involving children in argumentation and work with teachers implementing change in their classrooms The cycle of research includes use of written diagnostic test items children's reasoning as captured in group argumentation details of the types of reasoning that help children to change their mind and the development of tools for classroom teaching by practising teachers The discussion of research is anchored in practical learning and teaching contexts in order to directly relate to mathematics teaching practice and teachers expertise The book progressively develops concepts for teachers to use in organising their understanding and knowledge of children's mathematics concluding with an introduction to theoretical accounts of learning and teaching that can help make practical sense The book bridges the gap between research in the psychology of learning mathematics and the reality of classroom practice The book is ground breaking in that it transforms research on diagnostic errors argumentation and teaching strategies into knowledge for teaching The voices in the research include those of children and teachers in classrooms as well as the academic and research communities

The Left Academy Bertell Ollman, Edward Vernoff, 1982 The Left Academy a useful reference to the current state of Marxist thought This book explores Marxism in the social sciences and applied sociology fields such as social work and health The Left Academy features essays that analyze the state of Marxism in various academic disciplines by a well known scholar in that discipline In addition to the essays this third volume includes a summary of Marxism where it stands today and where it may go in the future Students academics and general readers will find the book thought provoking

**Sociocultural Theory and the Genesis of Second Language Development** James Lantolf, Steven L. Thorne, 2006-03-02 Integrates theory research and practice on the learning of second and foreign languages as informed by sociocultural and activity theory It familiarizes students teachers and other researchers who do not

work within the theory with its principal claims and constructs in particular as they relate to second language research The book also describes and illustrates the use of activity theory to support practical and conceptual innovations in second language education Gombrich on Art and Psychology Richard Woodfield,1996 Reframing Consciousness Roy Ascott,1999 We are in the middle of a process of complex cultural transformation but to what extent is this matched by the transformation in the way we see ourselves This book covers a wide ranging discussion on the interaction between Art Science and Technology and goes on to challenge assumptions about reality Loosely themed around four key elements of Mind Body Art and Values the editor leads the investigation through the familiar territories of interactive media and artificial life combining them with new and ancient ideas about creativity and personal identity The contributing authors numb

The Pressure of Openness Matt Ratto,2003

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